

Title (en)

Method for the measurement of the temperature of a body by optical detection and modulated heating.

Title (de)

Verfahren zur Messung der Temperatur eines Körpers durch optische Detektion und modulierte Erwärmung.

Title (fr)

Procédé de mesure de la température d'un corps par détection optique et échauffement module.

Publication

EP 0262996 A1 19880406 (FR)

Application

EP 87401843 A 19870807

Priority

FR 8611542 A 19860808

Abstract (en)

[origin: US4799788A] A process for measuring the temperature of a body by optical detection is disclosed wherein the body is heated by a modulated light beam and the radiation coming from the object is detected. The modulated component of the detected signal is measured and the temperature of the body is extracted by signal processing.

Abstract (fr)

On chauffe sur le corps (20), par exemple au moyen d'un faisceau lumineux (12) modulé, on détecte le rayonnement provenant de l'objet (28), on mesure la composante modulée du signal de détection (30, 32) et l'on en extrait la température du corps par traitement de signal.

IPC 1-7

G01J 5/52

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN, vol. 5, no. 201 (P-94)[873], 19 décembre 1981; & JP-A-56 122 924 (HIDEO TAKADA) 26-09-1981
- [A] JOURNAL OF PHYSICS E: SCIENTIFIC INSTRUMENTS, vol. 13, no. 3, mai 1980, pages 306-310, The Institute of Physics; J.L. GARDNER et al.: "Multi-wavelength radiation pyrometry where reflectance is measured to estimate emissivity"
- [A] MECHANICAL ENGINEERING, vol. 94, no. 7, juillet 1972, pages 12-15, New York, US; G.D. NUTTER: "Radiation thermometry"

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Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

US 8254987 A 19870807; AT 87401843 T 19870807; CA 543613 A 19870803; DE 3777310 T 19870807; EP 87401843 A 19870807; ES 87401843 T 19870807; FR 8611542 A 19860808